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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/846,991	05/01/2001	Hiroshi Shibata	2271/64858	3907

7590 04/27/2006

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EXAMINER

SHINGLES, KRISTIE D

ART UNIT PAPER NUMBER

2141

DATE MAILED: 04/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/846,991

Applicant(s)

SHIBATA, HIROSHI

Examiner

Kristie Shingles

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 February 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-48 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

*Response to Amendments*  
*Claim 31 has been amended.*  
*Claims 47 and 48 are new.*

*Claims 1-48 are pending.*

### *Response to Arguments*

1. Applicant's arguments filed 11/25/2005 have been fully considered but they are not persuasive.

A. Regarding claims 1, 9, 15, 23, 31 and 39, Applicant argues in substance that prior art of record *Sampath et al* and *Manchala et al* both fail to teach sending a request for supplying the consumable product to a manager who supervises the apparatus, using the registered electronic communications address of the manager and send a report to the manager when the detector detects that the consumable product is refilled and sending a request for repair service to the manager and the service depot using the respectively registered electronic communications addresses when the detector detects the event and sending a report for reporting a completion of the repair service on the apparatus when the detector detects no defect of the maintenance component.

A.1. Examiner respectfully disagrees. *Sampath et al* teach sending a request to a customer or parts/consumables supplier in order to repair the apparatus and verifying the repairs upon completion by forwarding information indicating that machine is operating acceptably (Abstract, col.5 lines 1-6, col.7 lines 63-67). *Sampath et al* provision the uses of electronic communications addresses of the customer, supplier, service engineer, etc. in order to contact and communicate notifications of the apparatus' status; notification methods include "e-mail, paging, cellular phones, a web page, or the like" (col.8 lines 1-26). Furthermore, the use of an electronic communications address is inherent when implementing notification and contact

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services, wherein forwarded request and repair data are communicated to the different users of the system. Examiner further notes that *Manchala et al* disclose a request and detection event notifying the administrator that a consumable product needs replacement, thus permitting the administrator to authorize ordering from a service depot/vendor before completing an order to replace the consumable product (col.4 lines 1-46). Applicant's arguments are therefore unpersuasive and the rejection of claims 1, 9, 15, 23, 31 and 39 is maintained.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1-48** are rejected under 35 U.S.C. 103(a) as being unpatentable over *Sampath et al* (USPN 6,665,425) in view of *Manchala et al* (USPN 6,405,178).

a. **Per claim 1**, *Sampath et al* teach a communications terminal apparatus, comprising:

- a communications system configured to perform electronic communications with a manager supervising said apparatus (Abstract and col.7 line 57-col.8 line 20);
- a register registering electronic communications addresses of said manager and said service depot, identification of said apparatus, specification of said consumable product, and identification of said service depot (col.1 line 61-col.2 line 58, col.3 line 53-col.4 line 10, and col.7 line 50-col.8 line 51); and
- a controller configured to send a request for supplying said consumable product to said manager using said electronic communications address when

said detector detects that said consumable product is nearly ended and a report for reporting a completion of supplying said consumable product on said apparatus when said detector detects that said consumable product is refilled, said request including said identification of said apparatus, said specification of said consumable product, and said identification of said service depot (Abstract, col.4 line 11-col.5 line 8, col.6 lines 15-50 and col.7 line 50-col.8 line 51).

*Sampath et al* teach automatically identifying image quality problems in document processing systems, the automatic scheduling of service, parts and/or consumables and automated remediation of faults (col.1 lines 39-60) along with the collection of relevant machine data initiating diagnostic routines (col.3 line 53-col.4 line 10, col.7 lines 3-21, col.8 lines 1-11). Yet *Sampath et al* fail to explicitly disclose a detector automatically detecting a status of usage of a consumable product used in said apparatus and supplied by a service depot. However, *Manchala et al* disclose automatic monitoring of the amount of consumable used in printing systems, wherein upon notification about the near exhaustion of a consumable, a purchase order to the vendor/supplier is automatically made (Abstract, col.3 lines 26-36, col.4 lines 1-4 and 16-22, col.6 lines 8-19).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Sampath et al* and *Manchala et al* for the purpose of providing automated detection capabilities in order to collect the necessary data needed for diagnosing possible machine defects or problems without manual intervention.

b. **Claims 5, 9 and 12** contain limitations substantially equivalent to the limitations of Claim 1 and are therefore rejected under the same basis.

c. **Per claim 39**, *Sampath et al* teach a method of maintaining a system that comprises networked units that may require from time to time at least one of replenishing

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consumables and servicing of components, wherein said consumables or servicing are provided by at least one external facility and said system of networked units is supervised by a manager who need not be at the premises of said units, said method comprising:

- responding to the generation of a first detection signal at the unit to automatically generate and electronically transmit a first notification to each of (a) the manager supervising the networked units, and (b) the at least one external facility (Abstract and col.7 line 57-col.8 line 20);
- wherein said first notification identifies at least said unit and said event to thereby advise both the manager and the at least one facility (a) which of the networked units has a requirement and (b) what is the requirement (col.1 line 61-col.2 line 58, col.3 line 53-col.4 line 10, and col.7 line 50-col.8 line 51);
- responding to the generation of said second detection signal to automatically generate and transmit a second notification to at least one of said manager and said at least one facility (Abstract, col.5 lines 1-8 and col.8 lines 1-45); and
- said second notification advising that the requirement has been met (Abstract, col.5 lines 1-8 and col.8 lines 36-45).

*Sampath et al* teach automatically identifying image quality problems in document processing systems, the automatic scheduling of service, parts and/or consumables and automated remediation of faults (col.1 lines 39-60) along with the collection of relevant machine data initiating diagnostic routines (col.3 line 53-col.4 line 10, col.7 lines 3-21, col.8 lines 1-11). Yet *Sampath et al* fail to explicitly disclose automatically detecting a first event indicative of a requirement for replenishing consumables or servicing components at any one of said networked units, and generating a first detection signal in response to a detection of a first event at the unit and automatically detecting thereafter at said unit a second event indicating that the requirement has been satisfied, and generating a second detection signal in response to a detection of said second event. However, *Manchala et al* disclose automatic monitoring of the amount of consumable used in printing systems, wherein upon notification about the near exhaustion of a

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consumable, a purchase order to the vendor/supplier is automatically made (Abstract, col.3 lines 26-36, col.4 lines 1-4 and 16-22, col.6 lines 8-19) and automatic updates (*Manchala et al.*: col.3 lines 31-36, col.4 lines 15-21, col.5 lines 3-7; *Sampath et al.*: Abstract, col.5 lines 1-8).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *Sampath et al* and *Manchala et al* for the purpose of providing automated detection capabilities in order to collect the necessary data needed for diagnosing possible machine defects or problems without manual intervention.

d. **Claims 15, 20, 23, 28, 31 and 35** contain limitations substantially equivalent to the limitations of Claims 1 and 39 and are therefore rejected under the same basis.

e. **Per claim 2**, *Sampath et al* and *Manchala et al* teach a communications terminal apparatus as defined in claim 1, *Sampath et al* further teach wherein said communications system performs E-mail communications with said manager (col.1 lines 61-67 and col.7 line 57-col.8 line 20).

f. **Claims 6, 10, 13, 18, 26, 32, 36 and 42** contain limitations substantially equivalent to the limitation of Claim 2 and are therefore rejected under the same basis.

g. **Per claim 3**, *Sampath et al* and *Manchala et al* teach a communications terminal apparatus as defined in claim 1, *Sampath et al* further teach wherein said consumable product includes toner (col.7 lines 3-23 and col.8 lines 1-51).

h. **Claims 11, 33 and 44** contain limitations substantially equivalent to the limitations of Claim 3 and are therefore rejected under the same basis.

i. **Per claim 4**, *Sampath et al* and *Manchala et al* teach a communications terminal apparatus as defined in claim 1, *Sampath et al* further teach wherein said communications system

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performs facsimile communications with said manager (col.1 lines 40-67, col.5 lines 9-22 and col.8 lines 11-20).

j. **Claims 8, 19, 22, 27, 30, 34, 38 and 43** contain limitations substantially equivalent to the limitations of Claim 4 and are therefore rejected under the same basis.

k. **Per claim 7**, *Sampath et al* and *Manchala et al* teach a communications terminal apparatus as defined in claim 5, *Sampath et al* further teach wherein said maintenance component includes a photoconductor (col.5 lines 9-22).

l. **Claims 14, 37 and 46** contain limitations substantially equivalent to the limitations of Claim 7 and are therefore rejected under the same basis.

m. **Per claim 16**, *Sampath et al* and *Manchala et al* teach a communications terminal apparatus as defined in claim 15, *Sampath et al* further teach the apparatus comprising:

- an analyzer configured to analyze E-mail including request receipt acknowledgement information notified from either said manager or said service depot with respect to said first E-mail (col.7 lines 36-67);
- a display displaying said request receipt acknowledgement information (col.8 lines 1-20),
- wherein said mail controlling system controls said display to display said request receipt acknowledgement information analyzed by said analyzer, and controls said display to stop displaying when said consumable product is determined to be in said refilled status based on said detect information detected by said consumable product status detector (Abstract, col.8 lines 1-51, col.10 line 65-col.11 line 13).

n. **Claims 21, 24 and 29** contain limitations substantially equivalent to the limitations of Claim 16 and are therefore rejected under the same basis.

o. **Per claim 17**, *Sampath et al* and *Manchala et al* teach a communications terminal apparatus as defined in claim 15, *Sampath et al* further teach wherein said terminal identification

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information includes at least one of an E-mail address, a serial number, facsimile TTI information, and a telephone number of said apparatus (col.1 line 61-col.2 line 58, col.3 line 53-col.4 line 10, and col.7 line 50-col.8 line 51).

p. **Claim 25** contains limitations substantially equivalent to the limitations of Claim 17 and is therefore rejected under the same basis.

q. **Per claim 40**, *Sampath et al* and *Manchala et al* teach a method as in claim 39 including receiving at the unit, *Sampath et al* further teach in response to said transmitting of said first notification, a first communication from at least one of said manager and said at least one external facility and displaying a selected representation of said response at the unit (col.2 lines 54-58, col.7 lines 36-67 and col.8 lines 1-20).

r. **Per claim 41**, *Sampath et al* teach a method as in claim 40 in which said communication is from said at least one external facility and advise when the request is expected to be met (col.1 lines 52-67 and col.2 lines 54-67).

s. **Per claim 45**, *Sampath et al* and *Manchala et al* teach a method as in claim 39 *Sampath et al* further teach the method in which said first event is indicative of a requirement to service a heater in said unit (col.3 line 53-col.4 line 26).

t. **Per claim 47**, *Sampath et al* and *Manchala et al* teach the apparatus of claim 1, *Manchala et al* further teach wherein said request sent to said manager using the registered electronic communications address also identifies the registered electronic communications address of the service depot (col.2 lines 45-61, col.3 lines 4-7 and 31-53, col.4 lines 16-66, col.5 lines 8-11).

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u. **Per claim 48**, *Sampath et al* and *Manchala et al* teach the apparatus of claim 1, *Manchala et al* further teach wherein said request sent to said manager using the registered electronic communications address includes an order form for sending to the service depot and also identifies the registered electronic communications address of the service depot to which the order form can be sent (col.2 lines 45-61, col.3 lines 4-7 and 31-53, col.4 lines 16-66, col.5 lines 8-11).

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: *Seko et al* (USPN 4,583,834), *Stokes* (USPN 5,612,902), *Suzuki* (USPN 6,334,658), *Friz et al* (USPN 5,786,994), *Yamashita et al* (USPN 5,594,529) and *Song et al* (USPN 5,850,583).

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action: Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristie Shingles whose telephone number is 571-272-3888. The examiner can normally be reached on Monday-Friday 8:30-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Kristie Shingles*  
*Examiner*  
*Art Unit 2141*

*kds*

  
RUPAL DHARIA